

AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A track assembly for use in a utility cart, the track assembly comprising:

a frame including a tensioning structure for adjustably spacing first and second wheels;

a top tandem arm pivotally connected to said frame such that said top tandem arm will pivot relative to said frame in a substantially vertical plane, said first wheel being ~~mounted at one end of said frame on a top portion of said tandem arm directly connected to a top portion of said top tandem arm at one end of said frame;~~

a bottom tandem arm having a front portion, a rear portion, a top portion, and a bottom portion, said top portion of said bottom tandem arm being pivotally connected to a bottom portion of said top tandem arm;

a front tandem arm idler wheel operably connected to said front portion of said bottom tandem arm;

a rear tandem arm idler wheel operably connected to said rear portion of said bottom tandem arm; and

a belt in engagement with said tandem arm idler wheels and said first and second wheels.

2. (Original) A utility cart for transporting agricultural implements, said cart comprising:

a pair of elongated rails suitable for supporting agricultural implements, said rails being substantially parallel to each other;

a transverse rear axle rigidly mounted to said rails;

a first rear top tandem arm and a second rear top tandem arm pivotally mounted at opposite ends of said rear axle such that said top rear tandem arms can pivot in a plane substantially parallel to said elongated rails, each of said tandem arms having a front portion and a rear portion;

a first rear bottom tandem arm pivotally mounted to said front portion of said first rear top tandem arm such that said first rear bottom tandem arm can pivot longitudinally with respect to said first rear top tandem arm, said first rear bottom tandem arm having a front portion and a rear portion;

a second rear bottom tandem arm pivotally mounted to said front portion of said second rear top tandem arm such that said second rear bottom tandem arm can pivot longitudinally with respect to said second rear top tandem arm, said second rear bottom tandem arm having a front portion and a rear portion;

rear tandem arm wheels attached to said front and rear portions of said first and second rear bottom tandem arms;

a first rear idler wheel rotatably mounted to said rear portion of said first rear top tandem arm for rotation in a plane substantially parallel to said rails;

a second rear idler wheel rotatably mounted to said rear portion of said second rear top tandem arm for rotation in a plane substantially parallel to said rails;

a hitching frame for connection to a towing vehicle, said hitching frame being pivotally connected to a front portion of said elongated rails;

a transverse front axle rigidly mounted to said hitching frame;

a first front top tandem arm and a second front top tandem arm pivotally mounted at opposite ends of said front axle such that said top front tandem arms can pivot in a plane substantially parallel to said elongated rails, each of said front tandem arms having a front portion and a rear portion;

a first front bottom tandem arm pivotally mounted to said rear portion of said first front top tandem arm such that said first front bottom tandem arm can pivot longitudinally with respect to said first front top tandem arm, said first front bottom tandem arm having a front portion and a rear portion;

a first front idler wheel rotatably mounted to said front portion of said first front top tandem arm for rotation in a plane substantially parallel to said rails;

a second front idler wheel rotatably mounted to said front portion of said second front top tandem arm for rotation in a plane substantially parallel to said rails;

front tandem arm wheels attached to said front and rear portions of said first and second front bottom tandem arms;

a first tension bar of adjustable length spanning between said first front top tandem arm and said first rear top tandem arm;

a second tension bar of adjustable length spanning between said second front top

tandem arm and said second rear top tandem arm;

a first continuous belt looped around said first front and first rear idler wheels,

said first continuous belt having a ground engaging surface for supporting

the weight of the utility cart and an interior surface engaging said front

and rear tandem arm idler wheels; and

a second continuous belt looped around said second front and second rear idler

wheels, said second continuous belt having a ground engaging surface for

supporting the weight of the utility cart and an interior surface engaging

said front and rear tandem arm idler wheels.

3. (Withdrawn) An assembly for use in a foldable stackable frame for mounting

agricultural implements, the assembly comprising:

a main frame for operable attachment to a transportation vehicle;

a wing operably attached to said main frame, said wing adjustable between a

working position wherein said wing extends transversely to a longitudinal

axis of said transportation vehicle when said main frame is attached to said

transportation vehicle and a folded position wherein said wing is generally

parallel to said longitudinal axis of said transportation vehicle when said

main frame is attached to said transportation vehicle, said wing being

adapted to have implements attached;

a stacking arm pivotally connected to said wing and said main frame, said stacking arm being adjustable between a lowered position and a stacked position; and

a stacking cylinder connected between said main frame and said stacking arm to move said stacking arm and wing into a transport position wherein said stacking arm is in said stacked position and said wing is in said folded position.

4. (Withdrawn) A foldable stackable frame for mounting agricultural implements, the foldable stackable frame comprising:

a mounting frame having a forward end and a rearward end;

a lift frame having a front portion and a rear portion, said front portion of said lift frame being pivotally mounted proximate to said forward end of said mounting frame;

a lift cylinder mounted between said mounting frame and said lift frame for raising and lowering said rear portion of said lift frame with respect to said rearward end of said mounting frame;

a front support frame mounted to said front portion of said lift frame;

a rear support frame mounted to said rear portion of said lift frame;

a rear stacking arm having a first end and a second end, said first end of said rear stacking arm being pivotally mounted to said rear support frame for pivoting in a stacking plane;

a front stacking arm having a first end and a second end, said first end of said front stacking arm being pivotally mounted to said front support frame for pivoting in a plane parallel to said stacking plane;

a front stacking cylinder mounted operably connected between said front support frame and said front stacking arm to control pivoting of said front stacking arm in said stacking plane;

a rear stacking cylinder mounted operably connected between said rear support frame and said rear stacking arm to control pivoting of said rear stacking arm in said stacking plane;

an implement wing suitable for supporting implements operably connected to said rear stacking arm such that said implement wing is pivotal with respect to said rear stacking arm in a folding plane that is generally perpendicular to said stacking plane, said implement wing being adjustable between a working position wherein said implement wing is generally perpendicular to a longitudinal axis of said mounting frame and a folded position wherein said implement wing is generally parallel to said longitudinal axis of said mounting frame;

a fold cylinder operably connected between said implement wing and said rear stacking arm to control pivoting of said implement wing between said working position and said folded position; and

said stacking cylinders being able to move said implement wings into an elevated transport position wherein said implement wings are elevated above said mounting frame while in said folded position.

5. (Withdrawn) A self-tucking wheel apparatus for use with agricultural booms, the agricultural booms being of the type adjustable between a working position and a folded transport position, the wheel apparatus providing support for an outboard portion of the boom when the boom is in the working position, the wheel apparatus comprising:

a main bracket for attachment to an agricultural boom, said bracket having a leadward portion and a trailward portion;

a trailward arm pivotally attached to said trailward portion of said main bracket such that said trailward arm can pivot in a substantially vertical plane when said agricultural boom is in an extended working position;

a trailward wheel operably connected to said trailward arm;

a swing bracket pivotally attached to said leadward portion of said main bracket; such that said swing bracket can pivot in a substantially vertical plane when said agricultural boom is in said extended working position;

a leadward wheel operably connected to said swing bracket by a parallel linkage, said parallel linkage extending rearwardly from said swing bracket;

a wheel tucking lever pivotally attached to said main bracket for pivotal movement in a substantially vertical plane;

a trailward cylinder connected between said wheel tucking lever and said trailward arm for moving said trailward arm between an extended working position and a tucked transport position;

a link between said wheel tucking lever and said swing bracket

6. (Currently Amended) A track assembly for distributing weight of an implement frame as it is towed across irregular ground, the track assembly comprising:
a wheel frame having an axle extending widthwise across the implement frame and
adapted for supporting the implement frame;
a first tandem arm directly pivotally connected to the wheel frame- said axle at a pivot
point for rocking generally in a vertical plane about a first pivot axis;
a first wheel positioned at one end of said wheel frame and operably connected to said wheel frame by said first tandem arm and a second wheel operably connected to said wheel frame;
a continuous ground-engaging belt trained around said first and second wheels and defining an upper run and a lower run, said lower run in contact with the ground; a first idler wheel structure supported by said first tandem arm such that said first idler wheel structure and said first wheel rock about said first pivot axis in a reciprocating manner to maintain a desired distribution of weight between said first wheel and said first idler wheel structure, said first idler wheel structure being in contact with said lower run between the first and second wheels; and a hitch member connected to said wheel frame for towing said wheel frame forwardly over the ground, wherein said lower run rolls in contact with the ground and said idler wheel structure moves vertically with the first tandem arm as said wheel frame is towed forwardly over the irregular ground.

7. (Currently Amended) The track assembly as set forth in claim 6, further comprising a second tandem arm supporting a second idler wheel structure, said second tandem

arm pivotally connected to said wheel frame for rocking in a generally vertical plane about a second pivot axis, said second tandem idler wheel structure contacting said lower run between said forward first and rear second wheels.

8. (Previously Presented) The track assembly as set forth in claim 7, wherein said first and second idler wheel structures include a plurality of idler wheels.

9. (Previously Presented) The track assembly according to claim 8, wherein said idler wheels are mounted on lower tandem arms pivotally connected to said first and second tandem arms.

10. (Previously Presented) The track assembly according to claim 9, wherein said second pivot arm supports said second wheel.

11. (Previously Presented) The track assembly as set forth in claim 7, wherein said wheel frame includes a tension bar structure for spacing said first and second wheels, and wherein said first and second tandem arms are pivotally connected to said tension bar structure.

12. (Previously Presented) The track assembly as set forth in claim 1 wherein said first wheel is a large idler wheel.

13. (Previously Presented) The track assembly as set forth in claim 1, wherein said front tandem arm idler wheel pivots transversely in a generally vertical plain relative to said bottom tandem arm; and wherein said rear tandem arm idler wheel pivots transversely in a generally vertical plain relative to said bottom tandem arm.

14. (New) A track assembly for distributing weight of an implement frame, the track assembly comprising:

a wheel frame having an axle extending widthwise across the implement frame and adapted for supporting the implement frame;

a first tandem arm directly connected to said axle at a pivot point for rocking generally in a vertical plane about a first pivot axis;

a first wheel positioned at one end of said wheel frame and operably connected to said wheel frame by said first tandem arm and a second wheel operably connected to said said wheel frame;

a continuous ground-engaging belt trained around said first and second wheels and defining an upper run and a lower run, said lower run in contact with the ground; and

a first idler wheel structure supported by said first tandem arm such that said first idler wheel structure and said first wheel rock about said first pivot axis in a reciprocating manner to maintain a desired distribution of weight between said first wheel and said first idler wheel structure, said first idler wheel structure being in contact with said lower run between the first and second wheels.